

WHAT IS CLAIMED IS:

1. A radiation image taking apparatus,
comprising:
 - a radiation detecting unit that has a detection
surface in which a photoelectric conversion element
is arranged, and converts a radiation into an
electrical signal;
 - a case that contains the radiation detecting
unit;
 - 10 a grid unit which includes a grid that removes
a scattered radiation and a grid frame; and
a photo timer unit which includes a photo timer
that measures a dose of the radiation and a photo
timer frame, wherein:
 - 15 the grid unit is detachably attachable to the
case through the grid frame, and the photo timer unit
is detachably attachable to the case through the
photo timer frame; and
one of a first mode in which the grid unit is
20 attached to the case, a second mode in which the
photo timer unit is attached to the case, and a third
mode in which the grid unit is attached in the second
mode can be used.
 - 25 2. An apparatus according to claim 1, wherein
the grid unit is engaged with first opposite sides of
the case and the photo timer unit is engaged with

second opposite sides of the case which are different from the first opposite sides.

3. An apparatus according to claim 1, wherein a
5 distance between the grid and the detection surface in the first mode is different from a distance between the grid and the detection surface in the third mode.

10 4. An apparatus according to claim 1, wherein the case comprises detection means for detecting whether or not at least one of the grid unit and the photo timer unit is attached.

15 5. An apparatus according to claim 4, wherein the detection means can recognize identification information of at least one of the grid and the photo timer.

20 6. An apparatus according to claim 5, further comprising recording means for recording information obtained by the detection means as image taking information.

25 7. An apparatus according to claim 1, wherein the frame of the grid unit and the frame of the photo timer unit are made of a metal.